

## CLAIMS

1           1.       A method for transferring an at least partly compressible file from a server  
2   computer to a user computer, the server computer and user computer being connected  
3   via a communication network, the method comprising the steps of:

4                   at least partly compressing the at least partly compressible file to produce  
5   a corresponding compressed file;

6                   storing the compressed file on the server computer;

7                   upon request, transferring the compressed file to the user computer; and

8                   decompressing the compressed file at the user computer to reconstruct  
9   the at least partly compressible file.

1           2.       A method according to claim 1 and further comprising, after the step of  
2   decompressing, the step of converting the reconstructed file into a form presentable to  
3   the user.

1           3.       A method according to claim 1 wherein the at least partly compressible file  
2   comprises a streamed-media file.

1           4.       A method according to claim 3 wherein the streamed-media file comprises  
2   a Macromedia Flash™ file.

1           5.     A method according to claim 3 wherein the streamed-media file comprises  
2     a Macromedia Shockwave™ file.

1           6.     A method according to claim 3 wherein the streamed-media file comprises  
2     a Java Applet™ file.

1           7.     A method according to claim 1 wherein the step of compressing said at  
2     least partly compressible file comprises the steps of:

3                 applying at least one predetermined type of compression algorithm to a  
4     data chunk of a predetermined size in said at least partly compressible file;

5                 if the compression ratio obtained from applying said at least one type of  
6     algorithm exceeds a predetermined threshold, writing the compressed data chunk to a  
7     memory;

8                 else, writing the data chunk uncompressed to said memory; and

9                 repeating the above steps for a plurality data chunks in said at least partly  
10    compressible file.

1           8.     A method according to claim 7 wherein the step of applying at least one  
2     type of compression algorithm to the at least partly compressible file comprises the  
3     steps of:

4                 applying a first compression algorithm or combination of compression  
5     algorithms to said data chunk;

6 applying a second compression algorithm or combination of compression  
7 algorithms to said data chunk;  
8 determining which of said first and second algorithms or combinations of  
9 algorithms yields a higher compression ration for said chunk;  
10 using the higher compression ratio algorithm or combination of algorithms  
11 to compress said chunk.

1  
1 9. A method according to claim 8 wherein at least one of said first and  
2 second compression algorithms or combinations of compression algorithms comprises  
3 a dictionary table type compression algorithm.

1  
1 10. A method according to claim 8 wherein at least one of said first and  
2 second compression algorithms or combinations of compression algorithms comprises  
3 a Huffman tree type compression algorithm.

1  
1 11. A method according to claim 1 wherein the step of decompressing said  
2 compressed file comprises the steps of:

3 collecting a chunk of data of said compressed file, said chunk having a  
4 predetermined size;

5 determining whether said data chunk has been compressed relative to the  
6 at least partly compressible file;



3 computer being connected via a communication network, the method comprising the  
4 steps of:

5 at least partly compressing the at least partly compressible file to produce  
6 a corresponding compressed file; and  
7 storing the compressed file on the server computer.

1

1 15. A method according to claim 14 wherein the at least partly compressible  
2 file comprises a streamed-media file.

1

1 16. A method according to claim 15 wherein the streamed-media file  
2 comprises a Macromedia Flash™ file.

1

1 17. A method according to claim 15 wherein the streamed-media file  
2 comprises a Macromedia Shockwave™ file.

1

1 18. A method according to claim 15 wherein the streamed-media file  
2 comprises a Java Applet™ file.

1

1 19. A method according to claim 14 wherein the step of compressing said at  
2 least partly compressible file comprises the steps of:

3 applying at least one predetermined type of compression algorithm to a  
4 data chunk of a predetermined size in said at least partly compressible file;

5 if the compression ratio obtained from applying said at least one type of  
6 algorithm exceeds a predetermined threshold, writing the compressed data chunk to a  
7 memory;  
8 else, writing the data chunk uncompressed to said memory; and  
9 repeating the above steps for a plurality data chunks in said at least partly  
10 compressible file.

1

1 20. A method according to claim 19 wherein the step of applying at least one  
2 type of compression algorithm to the at least partly compressible file comprises the  
3 steps of:

4 applying a first compression algorithm or combination of compression  
5 algorithms to said data chunk;

6 applying a second compression algorithm or combination of compression  
7 algorithms to said data chunk;

8 determining which of said first and second algorithms or combinations of  
9 algorithms yields a higher compression ration for said chunk;

10 using the higher compression ratio algorithm or combination of algorithms  
11 to compress said chunk.

1

1 21. A method according to claim 20 wherein at least one of said first and  
2 second compression algorithms or combinations of compression algorithms comprises  
3 a dictionary table type compression algorithm.

1  
1 22. A method according to claim 20 wherein at least one of said first and  
2 second compression algorithms or combinations of compression algorithms comprises  
3 a Huffman tree type compression algorithm.

1  
1 23. A method of downloading a compressed file corresponding to a  
2 compressible file in a given format from a server computer to a user computer, the  
3 server computer and user computer being connected via a communication network, the  
4 method comprising the steps of:

5 receiving a request for the at least partly compressible file;  
6 replacing the request for the at least partly compressible file with a request  
7 for the corresponding compressed file;  
8 transferring the compressed file to the user computer; and  
9 decompressing the compressed file at the user computer to reconstruct  
10 the at least partly compressible file.

1  
1 24. A method according to claim 23 and further comprising, after the step of  
2 decompressing, the step of converting the reconstructed file into a form presentable to  
3 the user.

1  
1 25. A method according to claim 23 wherein the at least partly compressible  
2 file comprises a streamed-media file.







9 compressible file and transmitting a request for said corresponding compressed file from  
10 the server computer via said communication link; and

11 a decompress program, associated with the user computer, which  
12 decompresses the compressed file to reconstruct the at least partly compressible file.

1

1 33. A system according to claim 32 and further comprising means for  
2 converting the reconstructed compressible file into a form presentable to the user.

1

1 34. A system according to claim 33 wherein the at least partly compressible  
2 file comprises a streamed-media file.

1

1 35. A system according to claim 33 wherein the streamed-media file comprises  
2 a Macromedia Flash™ file.

1

1 36. A system according to claim 33 wherein the streamed-media file comprises  
2 a Macromedia Shockwave™ file.

1

1 37. A system according to claim 33 wherein the streamed-media file comprises  
2 a Java Applet™ file.

1

1 38. A system according to claim 32 wherein said compress program  
2 comprises:

means for applying at least one predetermined type of compression algorithm to each of a plurality of data chunks of a predetermined size in said at least partly compressible file to produce corresponding compressed data chunk;

means for writing the compressed data chunk to said memory of the server computer if the compression ratio obtained from applying said at least one type of algorithm exceeds a predetermined threshold; and

means for writing the data chunk uncompressed to said memory of the server computer if the compression ratio obtained from applying said at least one type of algorithm does not exceed said predetermined threshold.

39. A system according to claim 38 wherein said means of applying at least one type of compression algorithm to each of the a plurality of chunks of at least partly compressible file comprises:

means for applying a first compression algorithm or combination of compression algorithms to said data chunk;

means for applying a second compression algorithm or combination of compression algorithms to said data chunk; and

means for determining which of said first and second algorithms or combinations of algorithms yields a higher compression ration for said chunk,

wherein the higher compression ratio algorithm or combination of algorithms is used to compress said data chunk.



3 compressed data chunk.

1

1 44. A method according to claim 43 wherein said means for applying at least  
2 one type of decompression algorithm to the at least partly compressible file comprises:  
3 means for determining at least one type of compression algorithm that has  
4 been used to compress said data chunk; and  
5 means for selecting said at least one decompression algorithm to match  
6 said at least one compression algorithm.

1

2